Claims Amendment

Claim Listing:

- 1. (original) An electronic circuit system named Mobile Safety Communication (MSC) device embedded into a rearview/side mirror of a vehicle comprising: a GPS receiver circuit module with a planar antenna; a wireless Communication circuit module with a planar antenna and a USB interface; a plurality optical lenses and CCD/CMOS sensors with single JPEG/MPEG compression circuit module and a USB interface; a RISC CPU based central control module circuit having a plurality of UART serial control ports, a plurality of USB device control ports, a plurality of USB host control ports, an Ethernet network ports, a DRAM and Flash Memory controllers, and the central control processor executing MSC software; a Real-time clock with battery; a Smart Card Access host electronics module; a Flash memory storage; a Lithium-ion battery; vibration and motion sensor/gauge with a microcontroller; both USB Host and USB Device outlets; Ethernet Communication outlet; wherein all of these electronics circuit modules soldered in a PCB and embedded into the rearview or side mirror of a vehicle.
- 2. (original) The Mobile Safety Communication (MSC) device according to claim 1, further molded into stand-alone unit is mounted at the proper position to the windshield glass of a vehicle.
- 3. (original) The MSC device according to claim 2, wherein the proper positions of the windshield glass are mounted at the highest position for better wireless communication and with GPS planar antenna facing the sky and better visual recording positions of a vehicle.

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- 4. (original)The MSC device according to claim 1, an electronic circuit IC (Integrated Circuit) package in a SOC (System On Chip) form that comprising: a RISC CPU central control module; a digital signal processing part of GPS receiver module; a digital signal processing part of wireless Communication module; a digital camera pixel bus with JPEG/MPEG compression circuit module; a plurality UART serial I/O ports; a flash memory; a plurality USB host and device control ports; an Ethernet communication circuit.
 - 5. (original) The MSC device according to claim 1, wherein a wireless communication module that includes but is not limited to GMS, CDMA, 802.11, MURS, FRS, GMRS, HAM, CB radio communication with planar antennas embedded into the vehicle's rearview or side mirror.
- 6. (original) The MSC device according to claim 2, wherein a wireless communication module that includes but is not limited to GMS, CDMA, 802.11, MURS, FRS, GMRS, HAM, CB radio communication with planar antennas embedded into stand-alone unit is mounted at the proper position to the windshield glass of a vehicle.
- 7. (original) The MSC device according to claim 5, wherein a printed circuit trace (FR-4) antenna, a ceramic chip antenna or a PIFA antenna of the wireless communication is applied to the rearview/side mirror of a vehicle.
- 8. (original) The MSC device according to claim 6, wherein a printed circuit trace (FR4) antenna, a ceramic chip antenna or a PIFA antenna of the wireless communication applied to a stand-alone unit which is mounted at the proper position to the windshield glass of a vehicle.

- 9. (original) The MSC device according to claim 1, wherein a printed circuit (FR4) trace antenna, multi-layer ceramic chip antenna or PIFA antenna of a GPS receiver is glued on the windshield glass with a pig-tail coax cable connected to the GPS receiver module.
- 10. (original) The MSC device according to claim 9, further the planar antenna of preferred ceramic chip antenna forming into the attachment part of a rearview mirror that sticks on the windshield glass, holds the GPS chip antenna for better reception of GPS signals.
- 11. (original) The MSC device according to claim 1, wherein a contact or a contactless

 Smart Card reader device is embedded into the rearview/side mirror of a

 vehicle that serves as a second key for an anti-car-theft device.
- 12. (original) The MSC device according to claim 2, wherein a contact or a contactless

 Smart Card reader device is embedded into a stand-alone unit that serves as a second key for an anti-car-theft device.
- 13. (original) The MSC device according to claim 5, wherein the wireless communication module controlled by the central control that serve as a radio beacon for car theft alarm, emergency help beacon, receiving intermet data communication signals that includes but is not limited to data/voice/video information, earth-quake alarm, tornado alarm, enemy attack alarm and wireless broadband communication terminal to a PC, notebook PC or PDA.
- 14. (original) The MSC device according to claim 1, wherein a Flash memory storage embedded into the rearview/side mirror of a vehicle in the form of Smart

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22. (currently amended) The MSC device according to claim 19, wherein the wide angle view of the lenses is equalized to compensate the driver's head and rearview which resides behind the rearview mirror where portions of the reflecting material is processed in a way such that the light reflects less for visual recording.

23. (withdrawn) The MSC device according to claim 1, wherein the operation method of the MSC functions including: a vehicle accident emergency alarm activation; an anti-theft alarm activation; a voice/motion recording scheme coordinated with the MSC motion sensor/gauge; a digital video recording scheme coordinated with the MSC motion sensor/gauge; an earthquake, tornado and enemy attack warning scheme; a built-in Flash Memory of MSC downloaded to USB mobile driver to retrieve the video/voice/motion recording when an external USB mobile driver is plugged in to the MSC USB device outlet; the transferring from DRAM to Flash memory when vehicle power off and builtin Lithium-ion battery kicked on; MSC device works as a USB wireless communication adaptor when connected to a USB host such as a laptop PC for wireless communication; MSC device works as a USB GPS receive adaptor when connected to a USB host such as a laptop PC for mapping and display; MSC device as a USB voice communication adaptor when connected to a USB host such as a laptop PC; MSC device as a USB digital camera adaptor when connected to a USB host such as a laptop PC;

24. (original) The MSC device according to claim 1, wherein a double spring attached metal ball based acceleration/de-acceleration sensor/gauge for detecting and measuring the acceleration, de-acceleration, vibration and flip over conditions of a vehicle.

25. (currently amended) The MSC device according to claim 24, further comprising a micro-controller to identify significant instances to the central control module to coordinate the video/voice/motion recording and alarm/emergency activation. This Said micro-controller also takes the vehicle's speedometer input to consolidate with the motion gauge/sensor to record more complete vehicle motion data in the Flash memory.

- 26. (original) The MSC device according to claim 1, wherein the USB interfaces for connecting between the central control to the multiple MSC peripheral modules comprising: a wireless communication module with USB interface; a voice communication and compression module with USB interface; a multiple CCD/CMOS lenses with single JPEG/MPEG compression module with USB interface; USB outlet to external MSC devices; MSC devices.
- 27. (cancelled) The MSC device according to claim 26, wherein the Central Control utilized a Samsung RISC CPU S3C2410X and GPS module utilized a ST Micro-electronics STB5610, ST20-GPS chip set and wireless communication module utilized a TI TNETW1100B and JPEG/MPEG compression utilized a DIVIO NW800 and voice communication module utilized TigerJet ST560 and USB hub controller utilized the ATMET AT43312 to compose the main electronic parts of MSC.

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1	28. (new) A method of operating MSC device comprising:
2	I. Normal operation functions including
3	Detection of ignition and power on conditions;
4	A burglar alarm/beacon activation with voice/video recording upon fail of smart ca
5	access;
6	Normal video/voice/motion recording in DRAM;
7	Storing the digital camera from DRAM to Flash in the instance of significant event
8	identified by the MSC motion sensor/gauge;
9	Transferring the voice/video/motion data from DRAM to Flash upon emergency
10	button/driving termination events.
11	II. USB/Ethernet control operation including:
12	Detection of ignition and power on conditions;
13	Detection of Ethernet, USB Host and USB Device terminal plug-in events;
14	Setting up the Ethernet communication link to mass storage hard disk;
15	Selecting USB communication protocol and communicating with the USB digital
16	camera monitor device, GPS mapping device, USB voice call device and USB
17	wireless communication devices;
18	Downloading External USB Flash memory to retrieve the recorded
19	video/voice/motion from MSC Flash;
20	Storing the video/voice/motion to a USB mass Storage;
21	III. DRAM to Flash transfer operation including:
22	Detection of significant events;
23	Transferring last few seconds of video/voice/motion from DRAM to Flash.
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Amendments to Description/Specification

Paragraph [0094] has been amended

[0094] Figure 21 shows a laptop PC as a MSC host connected to the USB outlet of the MSC to perform MSC functions; 776 is the. The laptop PC with has a USB connection cable 785-775 linked to the USB host outlet 787 of MSC-777. The 776-laptop PC can perform the GPS mapping diagram, real-time digital camera display of front-view and rearview, Internet broadband access or IP voice call on the display.

Cleaned-Up version of paragraph [0094]

Figure 21 shows a laptop PC as a MSC host connected to the USB outlet of the MSC to perform MSC functions. The laptop PC has a USB connection cable 785 linked to the USB host outlet 787 of MSC. The laptop PC can perform the GPS mapping diagram, real-time digital camera display of front-view and rearview, Internet broadband access or IP voice call on the display.